

CLAIMS

1. A liquid dispensing device comprising an air pump, a vessel for the liquid to be dispensed, a conduit extending from a lower region of the vessel to an exit nozzle, an outlet conduit for an air flow from said pump leading to an outlet nozzle for directing the air flow past the liquid exit nozzle to draw liquid in vapour and/or droplet form into said flow, the air outlet nozzle having a cross-section less than that of the liquid exit nozzle.

2. A device according to claim 1 wherein a baffle is located at or closely downstream of the air outlet nozzle and extends transversely over part of the cross-sectional extent of the nozzle or a continuation of the air flow path therefrom.

3. A device according to claim 2 wherein said baffle is formed by the liquid exit nozzle.

4. A device according to claim 2 wherein said baffle is located downstream of the liquid exit nozzle.

20 5. A device according to any one of the preceding claims wherein at least one of said nozzles is formed by a plug insert.

6. A liquid dispensing device comprising a vessel
for the liquid to be dispensed, an outlet passage
extending from a lower region of the vessel to a liquid
exit nozzle, a conduit for a forced air flow
5 communicating with an outlet nozzle for directing a
stream of air past the liquid exit nozzle, the liquid
exit nozzle extending in front of said outlet nozzle to
overlie a part of an axial projection of said outlet
nozzle air flow path, the remainder of the air flow path
10 at the outlet from said nozzle being not substantially
greater than the cross-section of the liquid flow path
from the liquid exit nozzle.

7. A device according to claim 6 wherein the liquid
exit nozzle is in abutment with the air outlet nozzle to
15 form a baffle immediately adjacent the exit from said
outlet nozzle, said projection of said nozzle air flow
path clear of the baffle having a cross-section smaller
than the liquid exit nozzle cross-section.

8. A device according to claim 6 or claim 7 wherein
20 the liquid exit nozzle is located between the air outlet
nozzle and a downstream flow passage having a divergent
cross-section.

9. A device according to any one of claims 6 to 8
wherein the air outlet nozzle is formed in an oblong
25 cross-section air flow passage into which the liquid exit

nozzle projects with a liquid flow path extending substantially in the direction of the major dimension of said oblong cross-section, said liquid nozzle blocking air flow over a part of said major dimension of said 5 oblong cross-section.

10. A liquid dispensing device comprising a vessel for a liquid to be dispensed, a conduit extending upwardly from a lower region of the vessel to a liquid exit nozzle, and an air outlet nozzle for a forced air flow opening adjacent said liquid exit nozzle to draw liquid into said air flow, a nozzle unit providing said air and liquid nozzles comprising a pair of elements having opposed faces at which the elements are sealed together, said nozzles being provided by depressions in 15 at least one of said faces.

11. A device according to claim 10 wherein further depressions in at least one of said faces provide sockets for receiving air and liquid supply means, and means for connecting said supply means to said nozzles.

20 12. A device according to claim 10 or claim 11 wherein said sealed together elements comprise a baffle adjacent the nozzle exits for disturbing the mixed flow of air and liquid from said nozzles.

13. A device according to any one of claims 10 to 12

wherein at least one of said faces has an additional depression providing a divergent passage extending downstream from said air and liquid nozzles for the mixed flow from said nozzles.

5 14. A device according to any one of claims 10 to 13 wherein at least one of said nozzles is formed between a depression in one said element and a planar face of the other said element.

10 15. A liquid dispensing device comprising a pump for generating a carrier fluid flow, a replaceable vessel removably mounted in the device forming a container for the liquid to be dispensed, a nozzle unit detachably secured relative to said pump, and from which a liquid conduit depends into a lower region of the vessel, the 15 nozzle unit holding coacting nozzles for the carrier fluid and liquid from said conduit.

16. A device according to claim 15 wherein the nozzle unit is detachable from the vessel.

20 17. A device according to claim 15 or claim 16 wherein the nozzles are formed by plug inserts in the nozzle unit.

18. A device according to claim 17 wherein the nozzles are secured in a holder to be mutually aligned before insertion of the holder in the nozzle unit.